

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 10/535,005A  
Source: PUT  
Date Processed by STIC: 3/6/06

# ***ENTERED***



PCT

## RAW SEQUENCE LISTING

DATE: 03/06/2006

PATENT APPLICATION: US/10/535,005A

TIME: 15:25:01

Input Set : A:\WCM 93B PCT.ST25.txt

Output Set: N:\CRF4\03062006\J535005A.raw

```

3 <110> APPLICANT: UNIVERSITY OF WALES COLLEGE OF MEDICINE
4     COOPER, David N
5     LEWIS, Mark
6     ULIED, Angeles
7     PROCTER, Anne M
8     GREGORY, John
9     MILLAR, David S
11 <120> TITLE OF INVENTION: Growth Hormone Variation in Humans and its uses
13 <130> FILE REFERENCE: WCM 93B PCT
C--> 15 <140> CURRENT APPLICATION NUMBER: US/10/535,005A
C--> 16 <141> CURRENT FILING DATE: 2005-05-12
18 <150> PRIOR APPLICATION NUMBER: GB 0226441.4
19 <151> PRIOR FILING DATE: 2002-11-12
21 <150> PRIOR APPLICATION NUMBER: PCT/GB2002/005112
22 <151> PRIOR FILING DATE: 2002-11-12
24 <150> PRIOR APPLICATION NUMBER: GB 0308242.7
25 <151> PRIOR FILING DATE: 2003-04-10
27 <160> NUMBER OF SEQ ID NOS: 2
29 <170> SOFTWARE: PatentIn version 3.1
31 <210> SEQ ID NO: 1
32 <211> LENGTH: 3700
33 <212> TYPE: DNA
34 <213> ORGANISM: human
36 <400> SEQUENCE: 1
37 ctgtttcttg gtttgtgtct ctgctgcaag tccaaggagc tggggcaata ccttgagtct      60
39 ggggttcttcg tccccaggga cctgggggag ccccagcaat gctcagggaa aggggagagc      120
41 aaagtgtggg gttggttctc tctagtgggc agtggtggaa ctgcatccag ctgactcagg      180
43 ctgacccagg agtcctcagc agaagtggaa ttcaggactg aatcgtgctc acaaccccca      240
45 caatctattg gctgtgcttg gcccttttcc ccaacacaca cattctgtct ggtgggtgga      300
47 ggttaaacat gcggggagga ggaaagggat aggatagaga atgggatgtg gtcggtaggg      360
49 ggtctcaagg actggctatc ctgacatcct tctccgcgtt cagggttgcc accatggcct      420
51 gcggccagag ggcacccacg tgacccttaa agagaggaca agttgggtgg tatctctggc      480
53 tgacactctg tgcacaaccc tcacaacact ggtgacggtg ggaagggaaa gatgacaagc      540
55 cagggggcat gatcccagca tgtgtgggag gagcttctaa attatccatt agcacaagcc      600
57 cgtcagtggc cccatgcata aatgtacaca gaaacagggt ggggcaacag tgggagagaa      660
59 gggggccagg tataaaaagg gccacaaga gaccagctca aggatcccaa ggcccaactc      720
61 cccgaaccac tcagggtcct gtggacagct cacctagcgg caatggctac aggtgaagcgc      780
63 ccctaaaatc cctttgggca caatgtgtcc tgaggggaga ggcagcgacc tgtagatggg      840
65 acgggggac taaccctcag gtttggggct tctgaatgtg agtatcgcca tgtaagccca      900
67 gtatttggcc aatctcagaa agctcctggt ccctggaggg atggagagag aaaaacaaac      960
69 agctcctgga gcaggagag tgctggcctc ttgctctccg gctccctctg ttgccctctg      1020
71 gtttctcccc aggtcccgag acgtccctgc tcttggtttt tggcctgctc tgccctgcct      1080
73 ggcttcaaga gggcagtgcc ttcccaacca ttcccttacc caggcttttt gacaacgcta      1140

```

## RAW SEQUENCE LISTING

DATE: 03/06/2006

PATENT APPLICATION: US/10/535,005A

TIME: 15:25:01

Input Set : A:\WCM 93B PCT.ST25.txt

Output Set: N:\CRF4\03062006\J535005A.raw

```

75 tgctccgcgc ccacgtctg caccagctgg cctttgacac ctaccaggag tttgtaagct 1200
77 cttggggaaat ggggtgcgat caggggtggc aggaaggggt gactttcccc cgctgggaaa 1260
79 taagaggagg agactaagga gctcagggtt tttcccgaag cgaaaatgca ggcagatgag 1320
81 cacacgctga gtgaggttcc cagaaaagta acaatgggag ctggtctcca gcgtagacct 1380
83 tgggtggcgg tccttctcct aggaagaagc ctatatccca aaggaacaga agtattcatt 1440
85 cctgcagaac cccagacct ccctctgttt ctacagagtct attccgacac cctccaacag 1500
87 ggaggaaaca caacagaaat ccgtgagtgg atgccttctc cccaggcggg gatgggggag 1560
89 acctgtagtc agagcccccg ggcagcacag ccaatgcccg tccttccccct gcagaacct 1620
91 gagctgctcc gcctctccct gctgctcatc cagtctgggc tggagcccg gcagttctc 1680
93 aggagtgtct tcgccaacag cctggtgtac ggcgcctctg acagcaacgt ctatgacctc 1740
95 ctaaaggacc tagaggaagg catccaaacg ctgatggggg tgaggggtgg gccaggggtc 1800
97 cccaatcctg gagccccact gactttgaga gctgtgttag agaaacactg ctgccctctt 1860
99 tttagcagtc aggcctgac ccaagagaac tcaccttatt cttcatttcc cctcgtgaat 1920
101 cctccaggcc tttctctaca ccctgaaggg gagggaggaa aatgaatgaa tgagaaaggg 1980
103 agggaacagt acccaagcgc ttggcctctc cttctcttcc ttcactttgc agaggctgga 2040
105 agatggcagc ccccgactg ggcagatctt caagcagacc tacagcaagt tcgacacaaa 2100
107 ctacacaaac gatgacgcac tactcaagaa ctacgggctg ctctactgct tcaggaagga 2160
109 catggacaag gtcgagacat tccctgcgat cgtgcagtgc cgctctgtgg agggcagctg 2220
111 tggcttctag ctgccgggtt ggcctccctg tgacccctcc ccagtgcctc tccctggcct 2280
113 ggaagttgcc actccagtgc ccaccagcct tgtcctaata aaattaagtt gcatcatttt 2340
115 gtctgactag gtgtccttct ataattattt ggggtggagg ggggtggtat ggagcaaggg 2400
117 gcaagttggg aagacaacct gtagggcctg cggggtctat tcgggaacca agctggagtg 2460
119 cagtggcaca atcttggctc actgcaatct ccgcctctg ggttcaagcg attctcctgc 2520
121 ctacgctctc cgagttgttg ggattccagg catgcatgac caggctcagc taatttttgt 2580
123 ttttttggtg gagacggggt ttcaccatat tggccaggct ggtctccaac tcctaattctc 2640
125 aggtgatcta cccaccttgg cctcccaaat tgctgggatt acaggcgtga accactgctc 2700
127 ccttccctgt ccttctgatt ttaaaataac tataccagca ggaggacgtc cagacacagc 2760
129 ataggctacc tgccatgccc aaccgggtggg acatttgagt tgcttgcttg gcactgtcct 2820
131 ctcatgcgtt ggggtccactc agtagatgcc tggttgaattc ctgggcctag ggctgtgcca 2880
133 gctgcctcgt cccgtcacct tctggcttct tctctccctc catatcttag ctgttttctt 2940
135 catgagaatg ttccaaattc gaaattttcta tttaaccatt atatatttac ttgtttgcta 3000
137 ttatctctgc cccagtaga ttggttagctc cagaagagaa aggatcatgt cttttgctta 3060
139 tctagatatg cccatctgcc tgggtacaatc tctggcacat gttacaggca acaactactt 3120
141 gtggaattgg tgaatgcatg aatagaagaa tgagtgaatg aatgaataga caaaaggcag 3180
143 aaatccagcc tcaaagaact tacagtctgg taagaggaat aaaatgtctg caaatagcca 3240
145 caggacaggt caaaggaagg aggggtattt tccagctgag ggcaccccat caggaaagca 3300
147 cccagactt cctacaacta ctagacacat ctcatgctt ttcacttctc tatcaatgga 3360
149 tcgtctccct ggagaataat ccccaaagtg aaattactta gcacgtccag ttaggtagat 3420
151 ccttgtgtac ttcttggttg ttcagagatc atcaaccagt gcaaacaatc ccccatcaa 3480
153 tacacagcag tgctgcccc tctcccccg aggtcttccg aggccttcc tccgtgctg 3540
155 aacccctgg acatatcata tggcaactg aagtgtccaa cgagatatag gaagtgaac 3600
157 acgatgtaca ctgaaacgtg caatacaaat atgcagcatg aagtgcctcg gttcactaac 3660
159 ccgagctacg ctgggtgctt cttttctacc actttcctta 3700
162 <210> SEQ ID NO: 2
163 <211> LENGTH: 191
164 <212> TYPE: PRT
165 <213> ORGANISM: human
167 <400> SEQUENCE: 2
169 Phe Pro Thr Ile Pro Leu Ser Arg Leu Phe Asp Asn Ala Met Leu Arg

```

## RAW SEQUENCE LISTING

DATE: 03/06/2006

PATENT APPLICATION: US/10/535,005A

TIME: 15:25:01

Input Set : A:\WCM 93B PCT.ST25.txt

Output Set: N:\CRF4\03062006\J535005A.raw

```

170 1           5           10           15
173 Ala His Arg Leu His Gln Leu Ala Phe Asp Thr Tyr Gln Glu Phe Glu
174           20           25           30
177 Glu Ala Tyr Ile Pro Lys Glu Gln Lys Tyr Ser Phe Leu Gln Asn Pro
178           35           40           45
181 Gln Thr Ser Leu Cys Phe Ser Glu Ser Ile Pro Thr Pro Ser Asn Arg
182           50           55           60
185 Glu Glu Thr Gln Gln Lys Ser Asn Leu Glu Leu Leu Arg Ile Ser Leu
186 65           70           75           80
189 Leu Leu Ile Gln Ser Trp Leu Glu Pro Val Gln Phe Leu Arg Ser Val
190           85           90           95
193 Phe Ala Asn Ser Leu Val Tyr Gly Ala Ser Asp Ser Asn Val Tyr Asp
194           100          105          110
197 Leu Leu Lys Asp Leu Glu Glu Gly Ile Gln Thr Leu Met Gly Arg Leu
198           115          120          125
201 Glu Asp Gly Ser Pro Arg Thr Gly Gln Ile Phe Lys Gln Thr Tyr Ser
202           130          135          140
205 Lys Phe Asp Thr Asn Ser His Asn Asp Asp Ala Leu Leu Lys Asn Tyr
206 145          150          155          160
209 Gly Leu Leu Tyr Cys Phe Arg Lys Asp Met Asp Lys Val Glu Thr Phe
210           165          170          175
213 Leu Arg Ile Val Gln Cys Arg Ser Val Glu Gly Ser Cys Gly Phe
214           180          185          190

```

**VERIFICATION SUMMARY**

**PATENT APPLICATION: US/10/535,005A**

**DATE: 03/06/2006**

**TIME: 15:25:02**

**Input Set : A:\WCM 93B PCT.ST25.txt**

**Output Set: N:\CRF4\03062006\J535005A.raw**

**L:15 M:270 C: Current Application Number differs, Replaced Current Application Number**

**L:16 M:271 C: Current Filing Date differs, Replaced Current Filing Date**